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SUBSECTION: 108.01 SUBCONTRACTING OF CONTRACT.

REVISION: Replace the second and third sentence of the first paragraph with the following:

When the Engineer gives such consent, the Engineer will allow the Contractor to subcontract a portion, but the Contractor must perform with his own organization work amounting to no less than 30 percent of the total Contract cost. The Department will not allow any subcontractor to exceed the percentage to be performed by the Contractor and will require the Contractor to maintain a supervisory role over the entire project.

SUBSECTION: 109.07 PRICE ADJUSTMENT.

REVISION: Replace the section with the following:

109.07 PRICE ADJUSTMENTS. Due to the fluctuating costs of petroleum products, the Department will adjust the compensation of specified liquid asphalt items and diesel fuel in contracts when contract quantity thresholds are met.

109.07.01 Liquid Asphalt. The Department will compare the Kentucky Average Price Index (KAPI), for the month that the Contract is let, to the index for the month that the Contractor places the material on the project to determine the percent change. When the original contract quantity for asphalt items is equal to or greater than 3,000 tons and when the average price of the liquid asphalt products increases or decreases more than 5 percent, the Department will adjust the Contractor's compensation. The KAPI is calculated monthly using the weighted average price, per ton at the terminal, from the active suppliers of liquid asphalt.

Adjustable Contract Items**:**

- Asphalt Curing Seal
- Asphalt Material for Prime
- Asphalt Material for Tack
- Asphalt Base, All Classes
- Asphalt Binder
- Asphalt Surface, All Classes
- Sand Asphalt Surface
- Asphalt Open-Graded Surface
- Asphalt Seal Coat
- Asphalt Mixture for Leveling and Wedging
- Drainage Blanket - Type II - Asphalt

The Department will determine the price adjustment using the following formulas:

When PC is greater than PL
Asphalt Price Adjustment = (Q x A)/100 x PL x [(PC-PL)/PL - 0.05]

When PC is less than PL
Asphalt Price Adjustment = (Q x A)/100 x PL x [(PC-PL)/PL + 0.05]

Where:
Q = Tons of material or mixture placed each month.
A = Percent of material or mixture that is asphalt.
PL = KAPI for the month that the Contract is let.
PC = KAPI for the month that the Contractor places the material or mixture.

The job-mix formula for asphalt base, binder, and surface mixtures determines "A", which is the percent of asphalt. For recycled mixtures, the Department will determine the adjustment for the new asphalt cement only. The Department will consider materials for prime, tack, and seal as 100 percent asphalt.

Revision Continued

109.07.02 Fuel. The Department will adjust the Contractor's compensation when the average price of diesel fuel increases or decreases more than 5 percent and the original Contract quantity for the item on which the fuel is consumed is equal to or greater than the threshold quantities listed in the following table.

Item	ThresholdQuantity	Fuel/Work
Roadway Excavation	10,000 cubic yards	0.25
Embankment-in-Place	10,000 cubic yards	0.25
Borrow Excavation	10,000 cubic yards	0.25
DGA Base or Crushed Stone Base	5,000 tons	0.52
Gravel Base, Type III	5,000 tons	0.52
Stabilized Aggregate Base	5,000 tons	0.52
Drainage Blanket, Treated or Untreated	5,000 tons	0.52
Crushed Sandstone Base (Cement Treated)	5,000 tons	0.52
Hot-Mixed Asphalt Mixtures for Pavements or Shoulders	3,000 tons [(1)]	3.00
PCC Pavement, Base, or Shoulders	2,000 square yards [(2)]	0.14

[(1)]Total of all hot mixed asphalt Contract items.
[(2)]Total of all JPC pavement, JPC shoulder, and PCC base, Contract items.

The Department will determine the price adjustment using the following formulas:

When PC is greater than PL
Fuel Price Adjustment = Q x F x PL x [(PC-PL)/PL - 0.05]

When PC is less than PL
Fuel Price Adjustment = Q x F x PL x [(PC-PL)/PL + 0.05]

Where:

Q = Quantity for applicable item placed or performed that month.
F = The fuel to work unit ratio for each applicable item.
PL = Average reseller price of diesel fuel, excluding taxes, discounts, and superfund line items, in the Kentucky region for the month that the Contract is let.
PC = Average reseller price of diesel fuel, excluding taxes, discounts, and superfund line items, in the Kentucky region for the month that the Contractor uses the fuel on the project.

109.07.03 Payments and Deductions. When thresholds are met, the Department will adjust the Contractor's compensation for each eligible pay item, paid or deducted, monthly.

If later price decreases indicate that the Department made an overpayment, the Department will withhold the overpayment from succeeding pay estimates on the project, or the Contractor shall immediately refund the over payment to the Department.

When the Contractor places materials during any month after the month that the Contract time (including all approved time extensions) expires, the Department will use the average price for the month that the Contractor places the material or the average price for the last month of the Contract time; whichever is least.

The Department will not grant a time extension for any overrun in the Contract amount due to payments made according to this section. The Department will not make any additional compensation due to adjustments made according to this section.

The Department will adjust the Contractor's compensation on the following months pay estimate and on the final pay estimate. The Department will make the final adjustment of the Contractor's compensation on the final estimate for the project.

SUBSECTION: 206.03.03 Compaction.
REVISION: Replace "KM 64-412" with "KM 64-002"

SUBSECTION: 212.03.03 Permanent Seeding and Protection.
PART: B) Procedures for Permanent Seeding.
REVISION: Add the following after the fourth sentence:

Unless the Engineer directs otherwise, track all slopes 3:1 or greater. Ensure that tracking is performed up and down and not across.

SUBSECTION: 213.03.01 Best Management Practices (BMP).
REVISION: Replace the third sentence of the first paragraph with the following:

Ensure that the BMP provides storage for 3,600 cubic feet of water per surface acre disturbed.

SUBSECTION: 213.03.03 Inspection and Maintenance
REVISION: Replace both "0.1-inch" references with "0.5-inch".

SUBSECTION: 213.03.05 Temporary Control Measures.
PART: B) Silt Checks.
REVISION: B) Silt Checks. Use one of the following types:

1) Silt Check Type II - Crushed stone such as cyclopean stone riprap, quarry run stone, or other size material approved by the Engineer, dumped in place and shaped to the configuration required.
2) Silt Check Type III - Blasted or broken rock dumped in place and shaped to the configuration required.

Remove and properly dispose of sediment deposited at silt checks as necessary. When no longer needed, remove the silt checks and dispose of surplus materials as excavated materials according to Section 204. Seed and protect the entire area disturbed, as directed. Do not leave silt checks in place after completion of the project unless allowed by the Engineer or specified in the Plans.

SUBSECTION: 213.03.05 Temporary Control Measures.
PART: G) Temporary Mulch.
REVISION: Replace the last sentence with the following:

Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and apply tackifier.

SUBSECTION: 213.04.15 Temporary Silt Ditch.
REVISION: Replace with the following:

The Department will measure the quantity in linear feet.

SUBSECTION: 213.04 MEASUREMENT.
REVISION: Add the following Subsection:

213.04.24 Clean Temporary Silt Ditch. The Department will measure the quantity in linear feet along the ditch line.

SUBSECTION: 213.05 PAYMENT.
REVISION: Add the following lines:

20594	Temporary Silt Ditch	Linear Foot
20601	Clean Temporary Silt Ditch	Linear Foot

SUBSECTION: 303.03.01 Mixture
PART: C) Cement Treated Mixture.
REVISION: Delete the "For asphalt pavements" from the second paragraph.

SUBSECTION: 303.03.01 Mixture
PART: C) Cement Treated Mixture.
REVISION: Delete requirement "2".

SUBSECTION: 402.03.02 Acceptance.
PART: D) Testing Responsibilities.
NUMBER: 4) Density.
REVISION: Replace the first sentence of the third paragraph with the following:

For surface mixtures placed on driving lanes and ramps, furnish 2 cores per sublot to the nearest laboratory facility (Contractor or Department lab) for density determination by the Engineer.

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SUBSECTION:	402.03.02 Acceptance.
PART:	H) Unsatisfactory Work.
NUMBER:	1) Based on Lab Data.
REVISION:	Replace the "AASHTO MP2" references in the second paragraph with "AASHTO M 323".
SUBSECTION:	402.04.02 Thickness on New Construction.
REVISION:	Delete the third paragraph and add the following at the end of the subsection: The Department will not measure initial thickness check coring or coring of corrective work for payment and will consider it incidental to the asphalt mixture.
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	A) Mixture Composition.
REVISION:	Replace the "AASHTO MP2" reference in the first paragraph with "AASHTO M 323". From the aggregate requirements list, delete 3) Type C.
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	C) Mix Design Criteria.
REVISION:	Replace the "AASHTO MP2" references with "AASHTO M 323". Replace the "AASHTO PP28" references in the second paragraph with "AASHTO R 35".
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	C) Mix Design Criteria.
NUMBER	1) Preliminary Mix Design.
REVISION:	Add the following footnote to the table and associate it with the ESAL's field "<0.3": * For CL1 ASPH SURF 0.38D PG64-22 only.
SUBSECTION:	403.03.06 Thickness Tolerances.
PART:	B) New Construction.
REVISION:	Replace the first paragraph with the following: Under the Engineer's supervision, perform coring for thickness checks according to KM 64-420, as soon as practical after completion of all, or a major portion, of the asphalt base. The Engineer will measure the cores. Fill all core holes either with compacted asphalt mixture or non-shrink grout. Complete all remedial overlay work before placing the final course.
SUBSECTION:	403.04.03 Asphalt Mixtures.
REVISION:	Replace the second sentence with the following: The Department will not measure rolled rumble strips for payment and will consider them incidental to this bid item.
SUBSECTION:	403.04.07 Sawed Rumble Strips.
REVISION:	Add the following subsection: 403.04.07 Sawed Rumble Strips. The Department will measure the quantity in linear feet. When rolled in rumble strips are specified, the Department will not measure sawed rumble strips for payment and will consider them incidental to the asphalt mixture.
SUBSECTION:	403.05 PAYMENT
REVISION:	Add the following bid item: Code Pay Item Pay Unit 20362 Shoulder Rumble Strips – Sawed Linear Foot
SUBSECTION:	501.03.20 Opening to Public Traffic.
REVISION:	Delete the last sentence of the first paragraph.

SUBSECTION:	502.03 CONSTRUCTION.
PART:	C) Curing and Protecting Pavement.
NUMBER:	3)
REVISION:	Replace the last sentence with the following:
	The Department will allow permanent removal of the cover when the concrete attains the required opening strength of 3,000 psi.
SUBSECTION:	502.03 CONSTRUCTION.
PART:	D) Strength Testing and Opening to Traffic.
NUMBER:	2) Testing.
REVISION:	Replace the second paragraph with the following:
	When the average compressive strength is 3,000 psi, the Department will allow the pavement to be opened to traffic and will test the remaining sets of cylinders at the required age. When the average compressive strength is less than 3,000 psi at the required age, do not open the pavement to traffic until the pavement has been in place for 7 days. The Engineer may accept the pavement based on additional testing.
SUBSECTION:	503.03.09 Ride Quality.
REVISION:	Replace parts 5) and 6) with the following:
	5) Perform corrective work to achieve the required IRI by regrinding the entire width of the traffic lane at areas having a high IRI. The Engineer may exclude pavement areas where grinding alone will not correct deficiency. 6) The Department will create a strip chart when the test results show that the IRI is greater than 60 or upon request for lower IRI values.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
REVISION:	Replace the first sentence with the following:
	Use a concrete producer from the List of Approved Materials when the quantity of concrete delivered to the project in a plastic condition is 250 cubic yards or more.
	Ensure that the concrete producer complies with the following requirements:
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
REVISION:	Replace the last sentence of the first paragraph with the following:
	Before producing any concrete for the project, submit a proposed mixture design to the Engineer and obtain the District Materials engineer's or the Central Office Material's approval.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	1) New Mixture Designs.
REVISION:	Replace the first sentence with the following:
	Base the proposed mix design on standard Department methods unless the District Materials Engineer, or Central Office Materials approves otherwise.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	1) Changes in Approved Mix Designs.
REVISION:	Replace the second sentence with the following:
	The District Materials Engineer or Central Office Materials will provide an average value of the specific gravity aggregate absorbtion.

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SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	3) Changes in Approved Mix Designs.
LETTER:	g)
REVISION:	Replace the fourth and fifth sentence with the following: Central Office Materials will observe all phases of the trial batches. Have the producer submit a report containing mix proportions and test results for slump, air content, water/cement ratio, unit weight, and compressive strength for each trial batch to the Engineer for Central Office Materials review and approval.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	2) Approval.
REVISION:	Replace the first sentence with the following: The District Materials Engineer or Central Office Materials will base approval of the mixture design on the following criteria:
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	3) Changes in Approved Mix Designs.
REVISION:	Replace the first sentence with the following: Do not change the source of supply of the mixture ingredients without the District Materials Engineer's or Central Office Materials written permission. Replace the third sentence with the following: Upon the District Materials Engineer's or Central Office Materials written approval, the Department will allow the use of aggregate from the new source.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
FOOTNOTE:	(6)
REVISION:	Add the following after the first sentence of the first paragraph: For products with voids, the slump may be increased to 7 inches. Replace the "0.3" requirement for Spring and Fall mix designs with "0.37".
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
NUMBER:	4) Measuring Admixtures.
REVISION:	Replace with the following: 4) Measuring Admixtures. Introduce liquid admixtures into the concrete batch along with, or as part of, the mixing water. Keep air entraining admixtures completely separate from all other admixtures until introduction into the batch. Maintain and equip dispensing equipment to ensure no chlorides are introduced into any Department mix. Use approved dispensing equipment with a meter, gauge, or scale that can accurately be pre-set for the needed amount of admixture and can consistently deliver quantities of admixture to successive batches at any setting with satisfactory accuracy. The dispensing equipment must be visible to the batch operator if the actual dispensed amounts are not recorded on the computer batch ticket. The Department may allow admixtures to be added, to the truck, at the project site provided the Engineer's approval is obtained first.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	D) Weather Limitations and Protection.
REVISION:	Delete the last sentence of paragraph two.

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SUBSECTION: 611.03.02 Precast Unit Construction.
REVISION: Replace "AASHTO C 1433" with "ASTM C 1433"

SUBSECTION: 701.02.05 Backfill Materials.
PART: A) Granular Backfill.
NUMBER: 1)
REVISION: Remove "A2" from the list of acceptable materials.

SUBSECTION: 701.03.03 Pipe Bedding.
REVISION: Replace with the following:

701.03.03 Pipe Bedding.

A) Reinforced Concrete Pipe. Construct bedding according to the Standard Drawings and this section.

1) Type 1 Installation. When working on a rock foundation, place bedding to a depth of 6 inches or equal to Bc/12, the pipe diameter in inches divided by 12, whichever is greater. For all other foundations, place a minimum of 4 inches of bedding. Shape the bedding to conform to the invert shape throughout the entire width and length of the proposed structure. Compact the bedding, but leave the center third of the pipe diameter (Bc/3) uncompacted. Place and compact additional bedding material in lifts 6 inches or less to an elevation of 0.30 the culvert diameter.
2) Type 4 Installation. When working on a rock foundation, place bedding to a depth of 6 inches or equal to Bc/12, the pipe diameter in inches divided by 12, whichever is greater. For all other foundations, place a minimum of 4 inches of bedding.

B) Corrugated Metal, Thermoplastic, and Structural Plate Pipe. Place and compact bedding to provide 4 inches of bedding below the outside invert of the pipe after shaping. Shape the bedding to conform to the invert shape throughout the entire width and length of the proposed structure. Place and compact additional bedding material in lifts 6 inches or less to an elevation of 0.30 the culvert diameter.

SUBSECTION: 701.03.06 Initial Backfill.
PART: A) Reinforced Concrete
REVISION: Replace with the following:

A) Reinforced Concrete Pipe.

1) Type 1 Installation. When the top of the pipe is not within one pipe diameter of the subgrade, backfill with granular backfill, additional bedding material, or flowable fill from the top of the bedding to an elevation equal to 1/2 the pipe diameter, and either granular backfill, flowable fill, or embankment material in 6-inch lifts to an elevation of one-foot above the pipe.
2) Type 4 Installation. Backfill from the top of the bedding with granular backfill, flowable fill, or embankment material in 6-inch lifts to an elevation of one-foot above the pipe. The Department will allow Type 4 installations for median drains and pipe installations located 35 feet or more from the edge of shoulder, back of curb, or any paved surface.

SUBSECTION: 701.05 PAYMENT.
REVISION: Replace bid item "2599 Fabric-Geotextile, Type IV Square Yard" with "21433ES214 Fabric-Geotextile, Type IV for Pipe Square Yard[(2)]"

Replace foot note "** The unit bid price is $2.00 per square yard for Geotextile Fabric, Type III" with "[(2)]The unit price is $2.00 per square yard for Fabric-Geotextile, Type IV for Pipe"

SUBSECTION:	711.02 MATERIALS.
REVISION:	Replace with the following:
	Conform to the Contract requirements.
SUBSECTION:	714.03.06 Proving Period for Durable Markings.
PART:	B) Failure.
REVISION:	Replace the first sentence with the following:
	During the proving period, the Department will consider markings defective when the retroreflectivity falls below the minimum required or the material fails to meet the other requirements of A) above. Additionally, when more than 10 percent of any one-mile section or individual gore area is defective, the Department will consider the entire section defective.
SUBSECTION:	716.03.08 Testing.
REVISION:	Replace "10 megohms" with "100 megohms"
SUBSECTION:	723.03 CONSTRUCTION.
REVISION:	Replace the first sentence of the fourth paragraph with the following:
	Set right-of-way markers within 12 inches of the right-of-way line.
SUBSECTION:	724.02.01 Plants.
REVISION:	Replace the reference "American Association of Nurserymen" with "American Nursery and Landscape Association".
SUBSECTION:	801.01 REQUIREMENTS.
REVISION:	Add the following sentence after the third sentence of the first paragraph:
	Mills must request and be approved by the Department to supply cement with an SO_3 content above the value in Table 1 of ASTM C 150.
SUBSECTION:	804.02 Approval.
REVISION:	Replace first sentence of the second paragraph with the following:
	The Department will consider a source for inclusion on the Aggregate Source List when the aggregate producer complies with Kentucky Method 64-608 and provides the following:
SUBSECTION:	804.03 Concrete.
REVISION:	Second sentence in first paragraph should be a separate paragraph immediately following the first and should read as follows:
	Provide natural, crushed, or conglomerate sand. The Department will allow any combination of natural, crushed, or conglomerate sand when the combination is achieved in the concrete plant weigh hopper. The Engineer may allow other sands. Use natural or conglomerate sands as fine aggregates in concrete intended as a wearing surface for traffic. Conform to the following:
SUBSECTION:	804.04.04 Requirements for Combined Aggregates.
PART:	D) Absorption.
REVISION:	Delete the first sentence and replace the second sentence with the following:
	Provide total combined fine aggregates having a water absorption of no more than 4.0 percent.
SUBSECTION:	804.11 Sampling and Testing.
REVISION:	Add the following footnote and associate it with Absorption (Fine Aggregate) AASHTO T84:
	For all crushed fine aggregates, determine SSD by the Subsection 6.2.1 Note 2 Part 2 Provisional Surface Test.
SUBSECTION:	805.02 Approval.
REVISION:	Replace first sentence of the second paragraph with the following:
	The Department will consider a source for inclusion on the Aggregate Source List when the aggregate producer complies with Kentucky Method 64-608 and provides the following:

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SUBSECTION:	810.02 APPROVAL.
REVISION:	Replace reference “KM 114” with “KM 115”.
SUBSECTION:	827.04 SEED
REVISION:	Replace the second paragraph with the following: Do not use seed (grasses, native grasses and legumes) if the weed seed is over 2 percent, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.
SUBSECTION:	844.02.01 Fly Ash.
PART:	1)
REVISION:	Delete the last sentence.
SUBSECTION:	844.02.01 Fly Ash.
PART:	2)
REVISION:	Replace the first sentence with the following: Provide with each shipment of fly ash a signed certification from the supplier that the fly ash complies with this section and ASTM C 618.